Bhaswan Sardar
Physics

A. 1. a) False

b) True

c) False True

d) False

e) True

2. a) metre, second, kilogram

b) temperature

c) 1000

d) ice

e) clinical

f) 37,98°C

g) mass.

3. a) a-iv

b -vi

c -ii

d - i

e - iii

f - v

4) a - i

b - i

c - ii

d̶e̶ iii

e - ii

B.1. We ~~measure~~ The lenght, ~~weight~~ Mass, time and temperature that we measure is called measurment.

The measurement is a comparionn of unKnown quality with a Known fixed quantity of same Kind.

2. Length is the distance between two points and mass is the measure of

weight on a things, weight.

3. The four basic of measurment is length, mass, time and ~~temperature~~ ~~te~~ temperature.

4. The S.I. unit of :-

(i) mass - kilogram (kg)

(ii) length - centimetre (cm)

(iii) time - Second (s)

(iv) temperature - Kelvin (K)

5. 1 metre is divided into 100 parts.

The S.I. unit of length is centimetre.

The multiple - Kilometre (1 Km = 1000 m)

The submultiple - 1) centimetre (1 cm = $\frac{1}{100}$

on 10^{-2} m

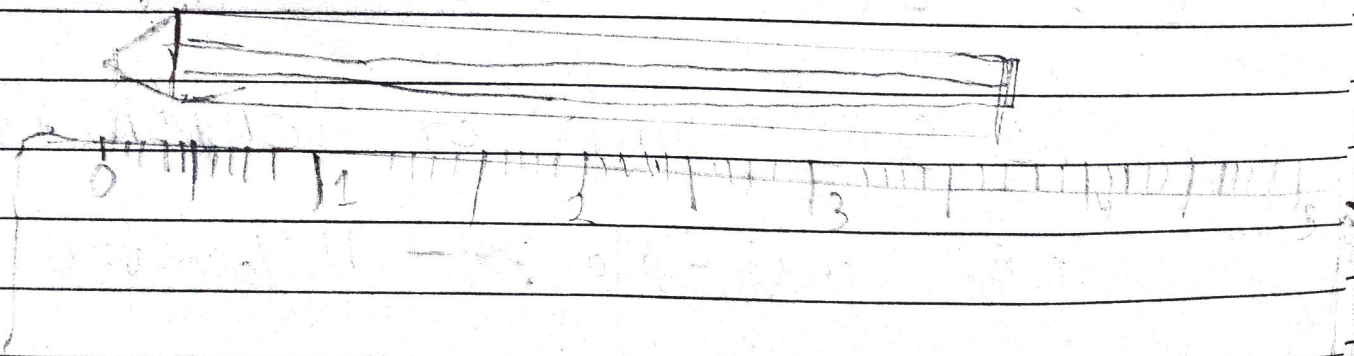2) Millimetre (1 mm = $\frac{1}{1000}$ m or 10^{-3} m)

6. a) 1

b) 30.48

c) 0.2

d) 420

e) 200

f) 2

g) 0.91

7 a) You can measure by ruler or tapes.

b) The reading on ruler at the end x is 1.0cm and at the end y is 4.3c so the length of the rod XY is 4.3

- 1.0 = 3.3 cm.

8. Tapes are used to measure perimeter of playground. to To measure the perimetre it need 2-3 people to measure it. The Perso will hold an end and the other persons will will hold another end.

No, because

9. a) A position measures 34 mm at, The   3.4 mm   3cm 4mm   B position measure 3.2 cm and C position measures 3 cm.

b) B is the correct positions of eye and the length of stick is 3.2 cm.

10. The weight of a body is the quantity of matter contained in it called Mass.

(i) The S.I unit of mass is kilogram.

(ii) The C.G.S of mass is gram.

(iii) The F.P.S of mass Pound.

11.

a) 2500 kg = 2.5 metric tonne

b) 150 kg = 1.5 quintal

c) 10 lb = 4.5359 kg

d) 2500 g = 2.5 kg

e) 0.01 kg = 10 kg

f) 5 mg = 5×10⁻⁶ kg

13. One Kilogram is equal to 1000g. The S. I- val unit of mass is kilogram and

1 a metric tonne = 10 quintal = 1000 kg

= 10,00,000 g

14. The S.I. unit of time is ~~kelvin~~ second and one second is $\frac{1}{864000}$ Part of a solar day. 360 second = 1 minute and 60 minute = 1 hour and 24 hour = 1 day and 365 day = 1 Year.

15. Stop clock and stop watch are two divices measures short time interval.

16. (i) 1955
    (ii) 18125 s

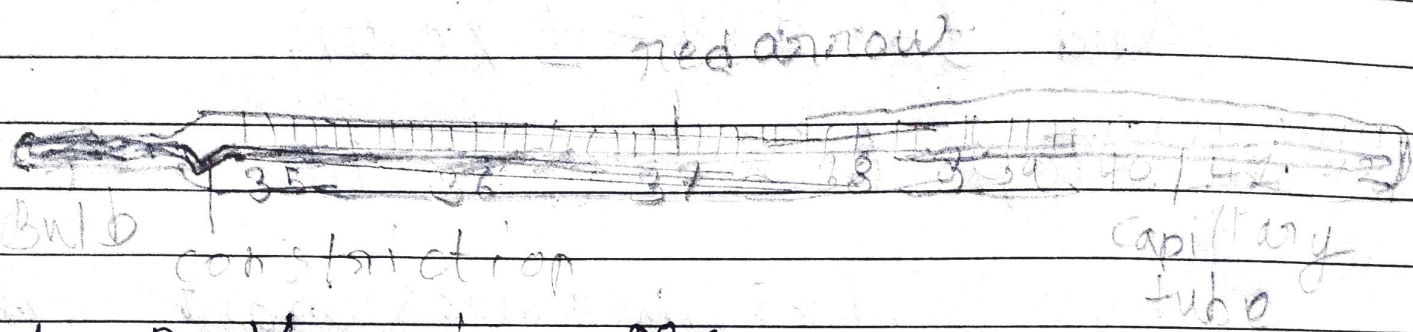17. The temperature measures an object that is cold or hot.

~~18~~
18(i) The S.I. unit of temperature is kelvin (K)

(ii) The most commonly unit of temperatur is

Celsius (c)

19. Clinical ~~instrume~~ thermometer is used to measure the temperature of a persons body.

red arrow

Bulb   constriction   capillary tube

20. i) melting ice - 0°C

ii) boiling water - ~~00~~ 100°C

21. Clinical thermometre is used in lab to measure temperature of an object.

22. Persons normal temperature is below the 37°C. It is indicated a person temperature below the red arrow degree.

23. No, because it has a is used to measure of person temperature.

24. every object has a surface like a brick, a matchbox, a leaf, a piece of paper etc.

25. The S.I. unit of area is square metre or metre². one square metre is the area of a square of each side of 1 metre.

26. ①

26. i) 1 square yard = 1 yard × 1 yard

$= 0.9144 m × 0.9144 m$

$= 0.836 m^2$

ii) hectare = 100 metre × 100 metre

$= 10000 metre^2$

iii) $1 km^2 = 1 km = 1 km$

$= 1000 m \times 1000 m = 10^6 m^2$

iv) $1 cm^2 = \frac{1}{100} m \times \frac{1}{100} m = \frac{1}{10000} m^2$

$= 10^{-4} m^2$

v) $1 mm^2 = 1 mm \times 1 mm$

$= \frac{1}{1000} m \times \frac{1}{1000} = \frac{1}{1000} m \times \frac{1}{1000} m$

$= 10^{-6} m^2$

27 i) I will take all sq.m because it is a~~n~~ regular shape

ii) ~~a~~ I will take full squares than ~~bea~~more ~~than~~ ~~then e~~ half squared and half square and I will ignore the less than half square because it is a irregular shape.